AS2

802.11b/g Outdoor Long-Range AP / CPE

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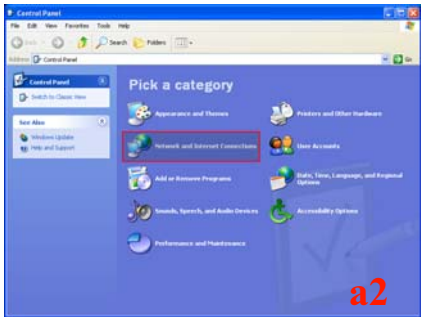
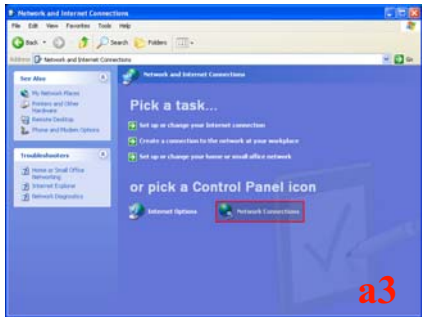
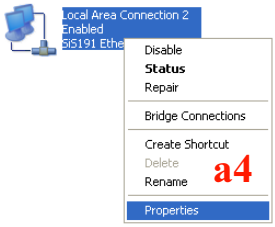
Chapter 1 : Computer setting.

1-1. Computer set as the fixed IP :

a. From the [Start Menu] select [Settings] → select [Control Panel] → select [Network and Internet .....] → select [Network Connections] → Select [Ethernet Icon] → click and press right button of the mouse, and select [properties].

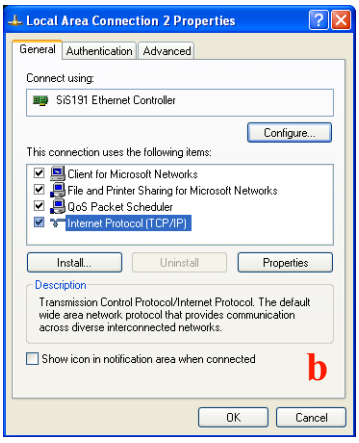


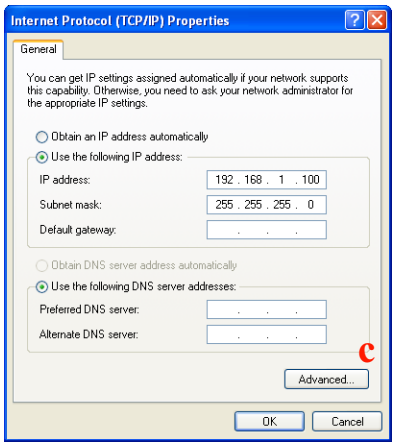




b. In [General] tab, Please select [Internet Protocol (TCP/IP)] → click [Properties].

c. Select both [Use the following IP address] and [Use the following DNS server addresses]. Enter the IP address between 192.168.1.2~192.168.1.254 range ; subnet mask is 255.255.255.0 → click [OK].



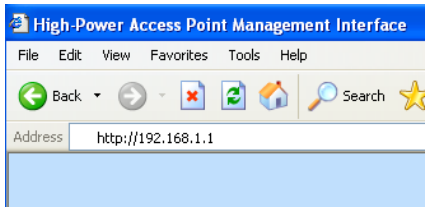

Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 1 . 100
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
c
Advanced...
OK
Cancel

d. Return back to [Local Area Connection Properties] screen → click [OK] to close it.

1-2. Access the setup page :

a. Launch the web browser (this section take IE6.0 for instance).

b. Type “ 192.168.1.1 ” in the address tab then press enter.

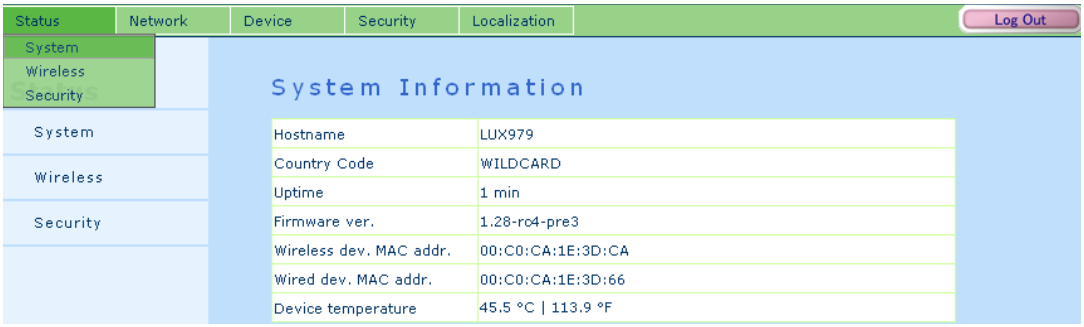


c. It shows up the login page, type “admin” in [password] click [login]

Chapter 2 : How to get the AS2 setting information?

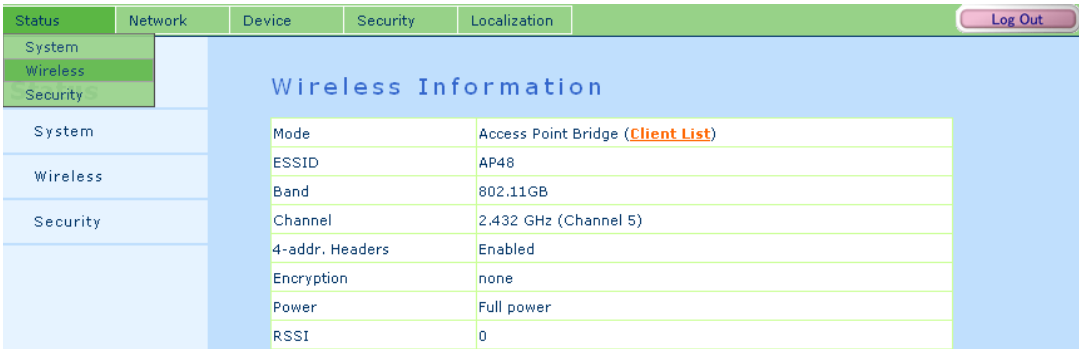
2-1. System Status :

In this page show some information such as Hostname, Country Code, Uptime, Firmware Version, Wireless device MAC address, Wired device MAC address and Device Temperture.



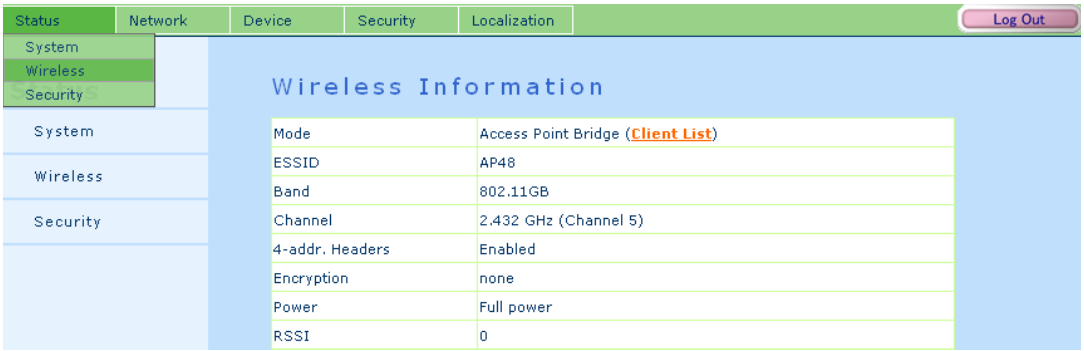
2-2. Wireless Status :

In this page show some Wireless working information such as mode, ESSID, Band, Channel, 4-address Headers flag, Encryption mode, Power and RSSI. If the device work in AP-Bridge or AP-Router mode you can find out the “Client list” option beside of mode information.



2-3. Security Status :

In this page show Access Control working mode (None, Acept, Deny) or SNMP mode.



Chapter 3 : How to Set the AS2 Network information?

3-1. Wireless Settings :

there are 3 kinds of modes for wireless network settings.

a. AP Bridge :

SSID : A SSID(service set identifier) is a name used to identify the particular 802.11 wireless LANs to which an user wants to attach.

Warning : Only A to Z, a to z, 0 to 9 and under line('_') can be used for SSID.

Frequency Band : This option can be choosed for 802.11 band. 802.11a only, 802.11b only, 802.11g only, 802.11bg mix or Auto.

Enable WDS : To preserves the MAC addresses of client packets across links between access points if WDS is enable.

Channel : Which working channel to be choosed.

Distance : Setting the device acktimeout.

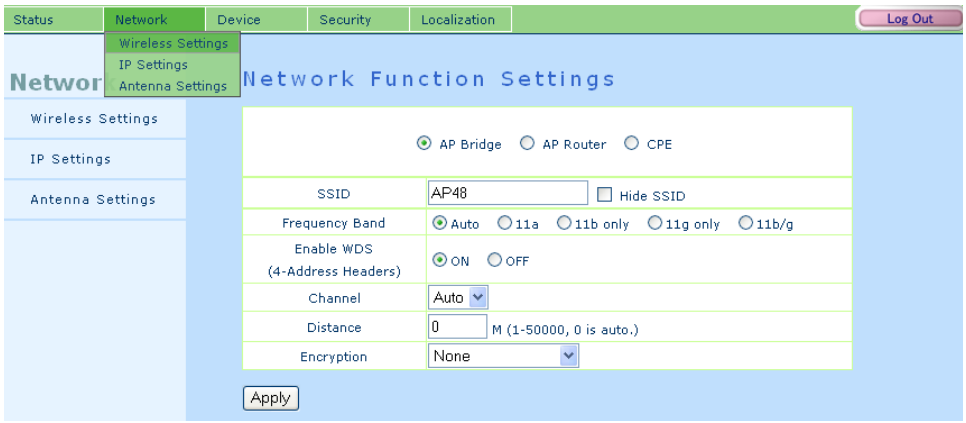
Encryption : Selection of defferent kinds of Encryption mode. Support mode WEP, WPA-PSK(AES), WPA-PSK(TKIP), WPA2-PSK(AES), WPA2-PSK(TKIP).

b. AP Router :

AP Router mode support DHCP server for wireless client and the other features are the same with AP Bridge mode.

Broadcast Range : 192.168.100.1 to 192.168.100.200

Waring : when setup as AP router mode, the web setup IP address will be 192.168.100.254.



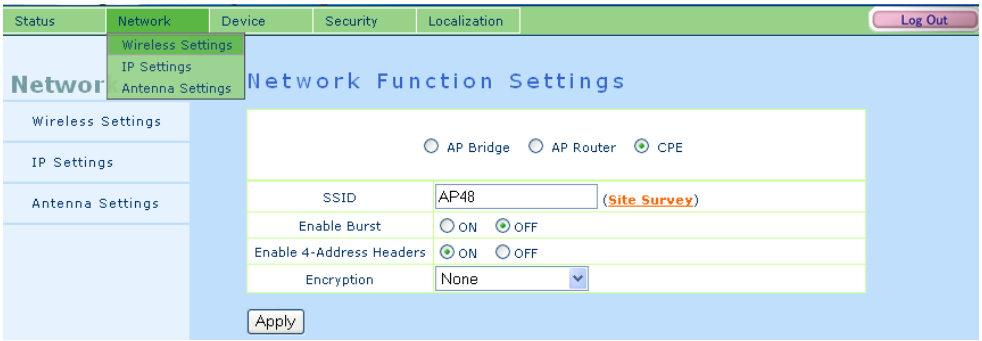
c. CPE :

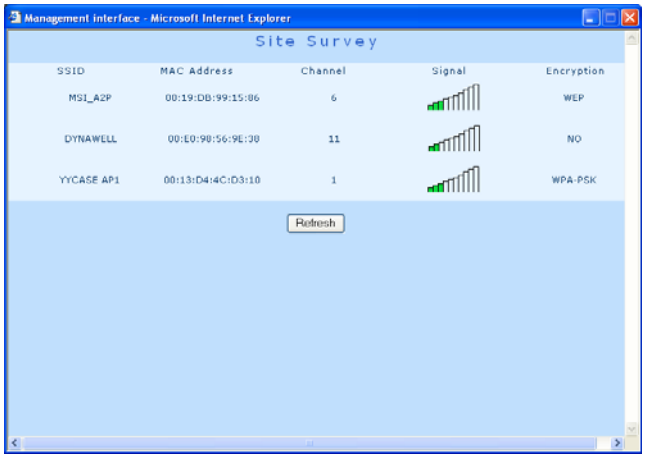
SSID : Choose which AP's SSID want to connect.
It can also use "Site Survey" to search AP.
Warning : Only A to Z, a to z, 0 to 9 and under line('_') can be used for SSID.

Enable Burst : To enable Burst mode or not.

Enable WDS : To preserves the MAC addresses of client packets across links between access points, if WDS is enable.

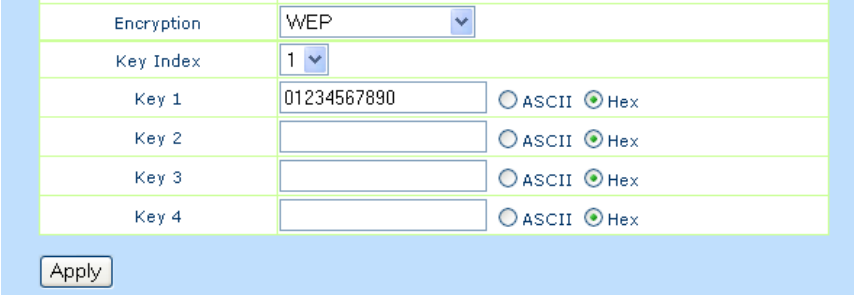
Encryption : Selection of defferent kinds of Encryption mode.
Support mode WEP, WPA-PSK(AES), WPA-PSK(TKIP), WPA-PSK 2(AES), WPA-PSK2(TKIP).





3-1.5. Encryption Setting :

WEP : Support 64 / 128 / 256 bit ASCII (5 / 13 / 29 char).
Support 64 / 128 / 256 bit Hex (10 / 26 / 58 char).



WPA-PSK (AES) : Support 8 to 63 char.
WPA-PSK (TKIP) : Support 8 to 63 char.
WPA2-PSK (AES) : Support 8 to 63 char.
WPA2-PSK (TKIP) : Support 8 to 63 char.

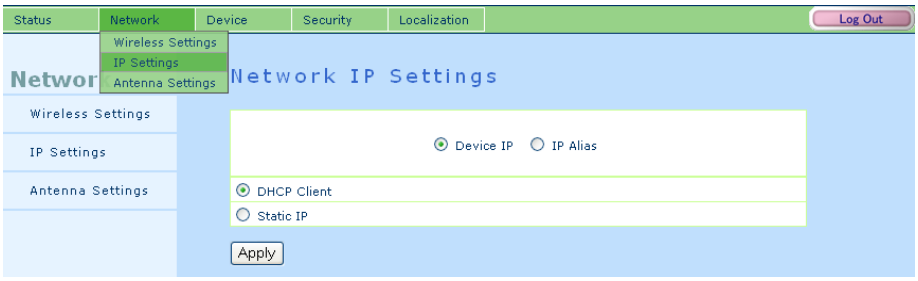
3-2. IP Settings :

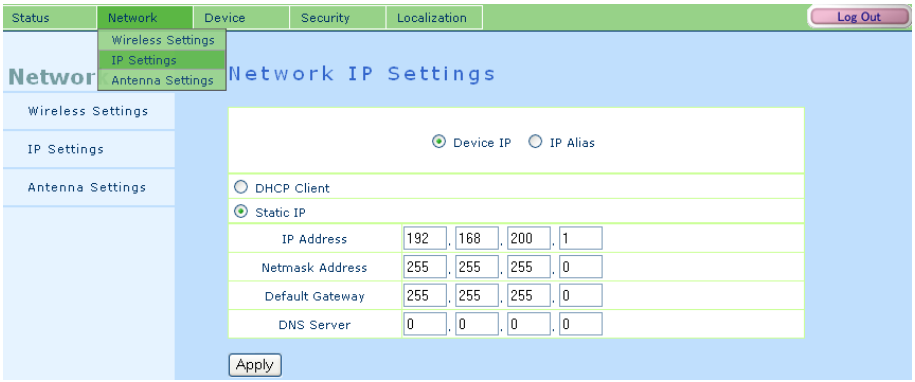
there are 2 kinds of options for wired network setting.

a. Device IP :

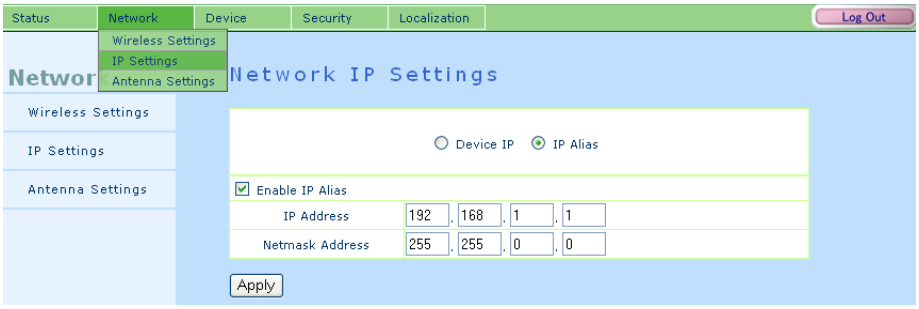
DHCP : Automatically get the IP address from DHCP Server.

Static IP : Asign a Static IP for this Device.





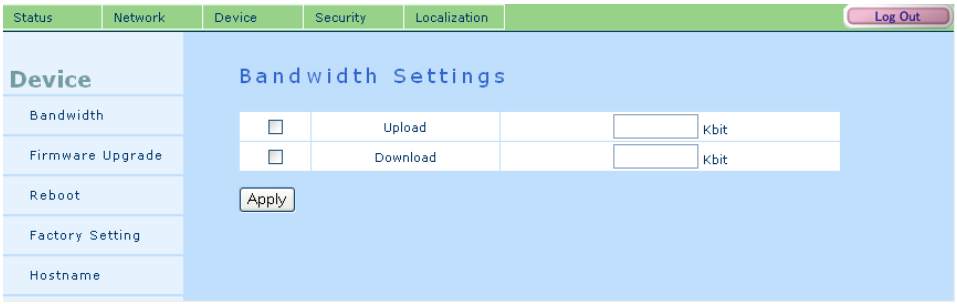
b. IP Alias : This IP address is mainly for the users to access management interface.



Chapter 4 : AS2 Device Function.

4-1. Bandwidth settings :

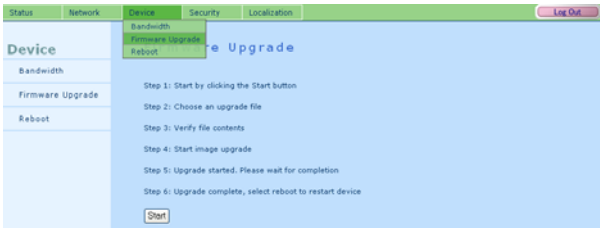
Setup the limitation the wireless Upload and Download Bandwidth.



4-2. Firmware Upgrade :

Firmware upgrade procedure:

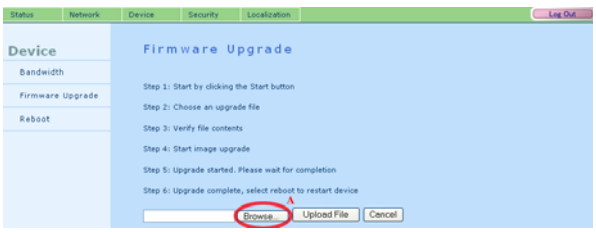
Step1 : click “start” button to start up firmware upgrade.

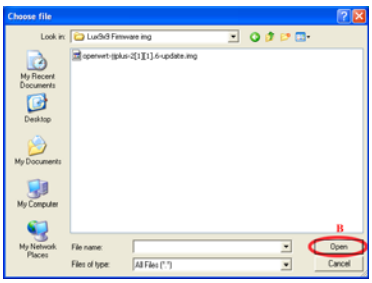


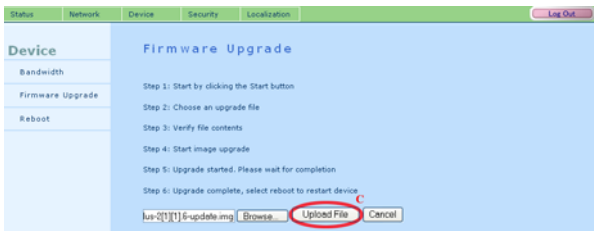
Step2 : a. Click “Browse...” button to select the firmware image file.

b. After selection click “Open”.

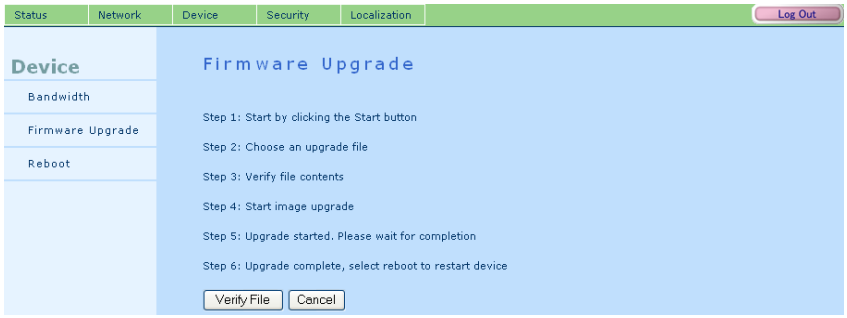
c. Click “Upload” button to upload image otherwise Click “Cancel” button to cancel firmware upgrade function.



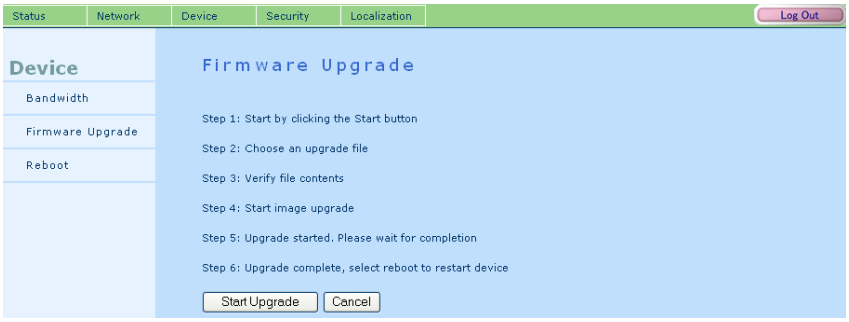




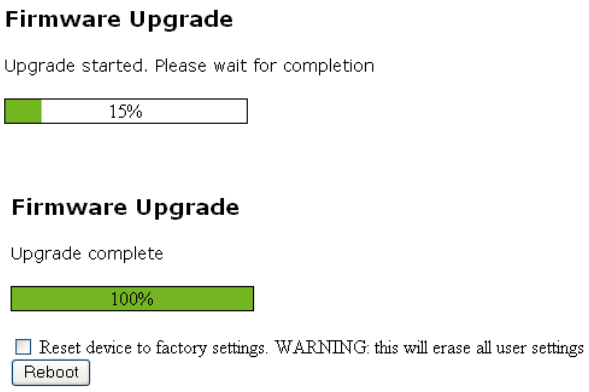
Step3 : click “Verify” button to start up verify firmware image.



Step4 : Click “Start Upgrade” button to upgrade image or Click “Cancel” button to cancel firmware upgrade function.



Step5 : Click “Reboot” button to restart device when upgrade bar was 100% Complete.



4-3. Device Reboot :

To reboot the device.

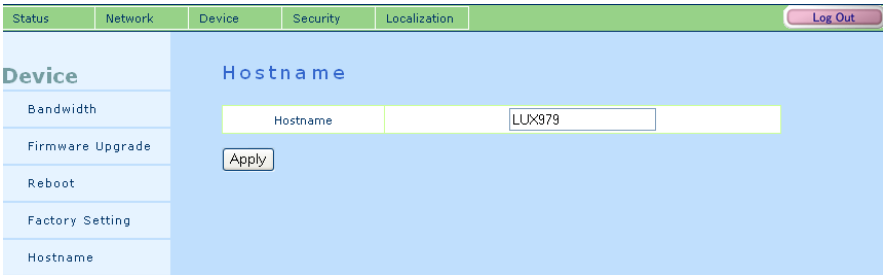
4-4. Factory Setting :

Return to factory default setting.

4-5. Hostname :

The idenfication of the device.

The hostname is used to identify a particular host in various forms of electronic communication.



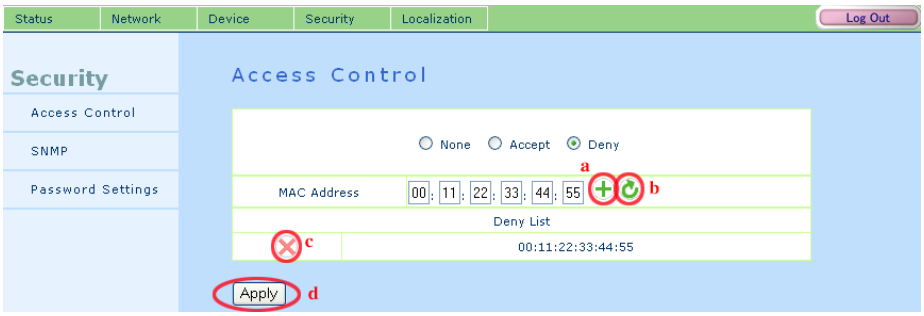
Chapter 5 : Security Management for networks.

5-1. Access Control :

Connection control by MAC address.

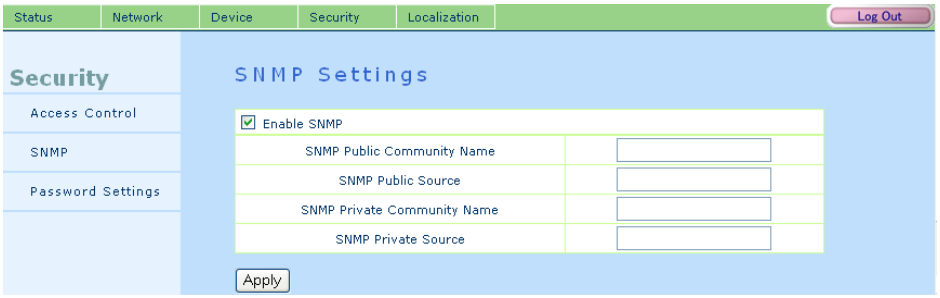
a. Add : Add a MAC address into Access list.
b. Clear : Clear building list.
c. Del : Delete MAC address from Access list.
d. Apply : Apply selected list to the AP.

Only 1 list (None / Accept / Deny) be start up in the same time.



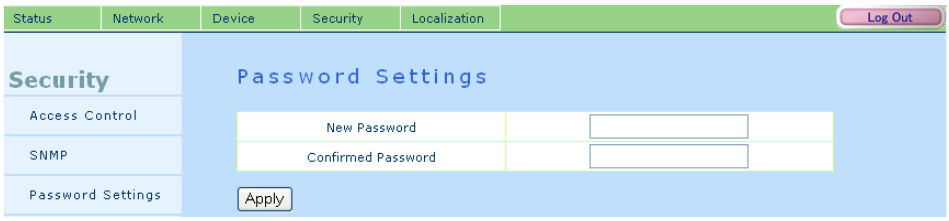
5-2. SNMP :

SNMP is used in network management systems to monitor network-attached devices for conditions that warrant administrative attention.



5-3. Password :

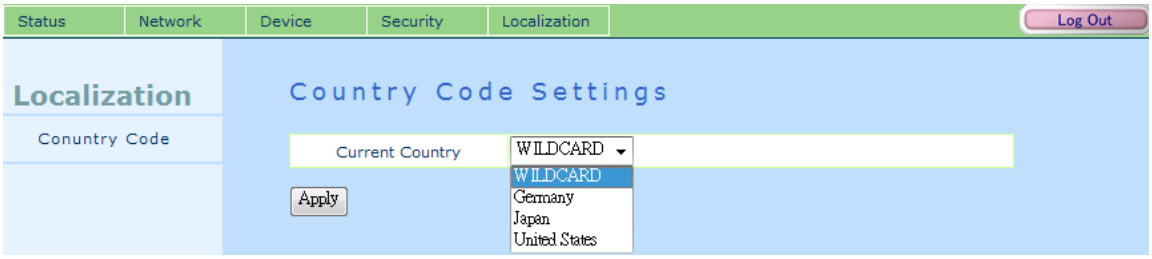
To change Web User Interface login password.



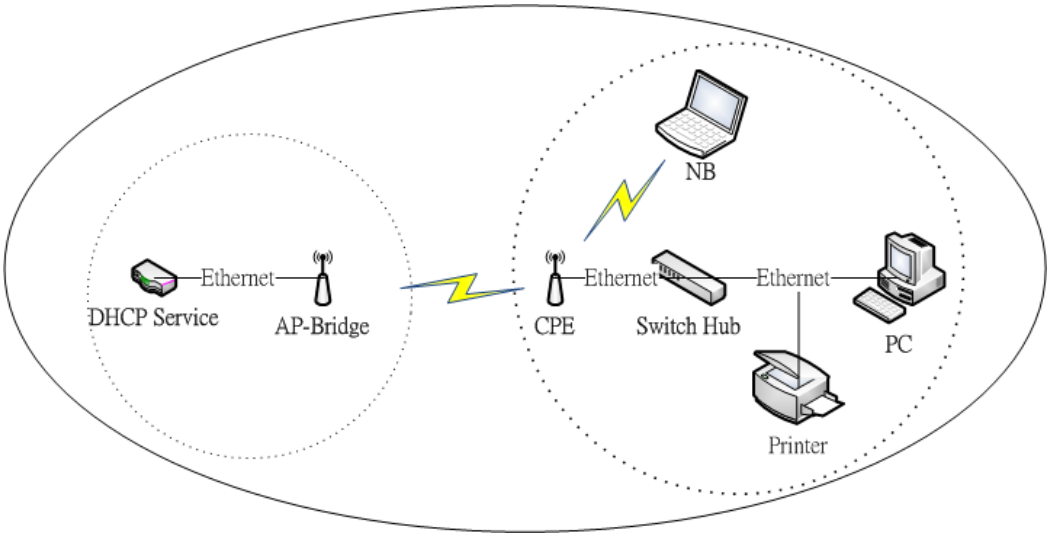
Chapter 5 : Security Management for networks.

Support 4 different country code.

a. Wildcard
b. Germany
c. Japan
d. United States

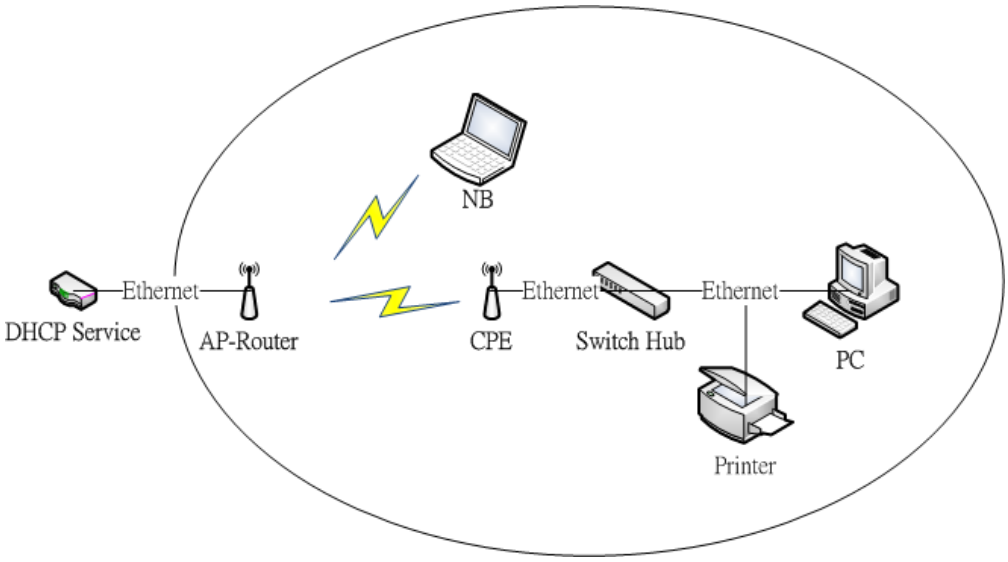


Application 1 : Basic Wireless Bridge Network ?



AP bridge and CPE connect multiple network segments at the data link layer (layer2) of the OSI model.
They can be used to join or connect remote station to LANs.
If a DHCP Server is behand the remote AP or station, the PC or device behind the AS2 will get the ip informations from DHCP server.

Application 2 : Basic Router Application ?



Get IP information from AS2 running in AP router mode.